

**Hibbs, David R NWK**

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**From:** Trier, Patrick H NWK  
**Sent:** Friday, August 22, 2014 3:44 PM  
**To:** Garcia, Delia  
**Cc:** Hibbs, David R NWK; Cory, Luke M NWK  
**Subject:** RE: [EXTERNAL] FW: Request to review case file 2014-00195 (Black Tea Oil) (UNCLASSIFIED)  
**Attachments:** cfs.jpg; gage height.jpg

Classification: UNCLASSIFIED  
Caveats: NONE

Here is the info I think you are looking for. It shows the gage height and cfs flow for the date you requested.

June 30th at 12:00am there was a gage height of 6.08 feet and a flow of 135cfs. The highest it got on that day was at 10:45am (6.67 feet and 463cfs)

Based on the conservative post 1969 only flood return intervals that Matt Mersel ran earlier, this looks like it is somewhere between a 1.5 and 2 year event. (1.5 year = 300cfs & 2 year = 634cfs) If you use the historical data that includes stream flows prior to 1969 it would be a much lower flood return interval.

The USGS photo that was taken on June 29th had a gage height of 6.96 feet and a flow of 770cfs. Which is pretty close to the 2 year invent (within 1.5 inches on the gage height)

Does that answer your questions?

Here is a link to the USGS page if you haven't already seen it.

[http://waterdata.usgs.gov/nwis/uv?cb\\_00065=on&cb\\_00060=on&format=html&site\\_no=06860000&period=&begin\\_date=2014-06-28&end\\_date=2014-06-30](http://waterdata.usgs.gov/nwis/uv?cb_00065=on&cb_00060=on&format=html&site_no=06860000&period=&begin_date=2014-06-28&end_date=2014-06-30)

Patrick Trier  
NWD Jurisdiction Subject Matter Expert  
USACE Kansas City District Regulatory  
(816)389-3029

-----Original Message-----

**From:** Garcia, Delia [mailto:Garcia.Delia@epa.gov]  
**Sent:** Friday, August 22, 2014 3:05 PM  
**To:** Trier, Patrick H NWK  
**Subject:** [EXTERNAL] FW: Request to review case file 2014-00195 (Black Tea Oil) (UNCLASSIFIED)

Patrick,

I forwarded the information you sent me a couple of days ago to our Headquarters, and I received this email earlier today. Is this something you can help us with? Thanks

Delia Garcia, PhD  
Environmental Scientist

WWPD/WENF  
US EPA Region 7  
11201 Renner Boulevard  
Lenexa, KS 66219  
Phone: (913) 551-7262 FAX: (913) 551-9262  
Email: Garcia.Delia@epa.gov

-----Original Message-----

From: Stokely, Peter  
Sent: Friday, August 22, 2014 9:36 AM  
To: Garcia, Delia  
Subject: RE: Request to review case file 2014-00195 (Black Tea Oil) (UNCLASSIFIED)

Delia, can the guys from the Corps calculate for us the cfs flow and flood return interval for June 30, 2014? That is the date of the DG image that shows flooding and clearly defines a high water mark at the time of the image. If we can determine the CFS and return interval for that storm event, the image may prove very useful for us in determining if we have a good case.

Pete

Peter Stokely  
EPA Office of Civil Enforcement  
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Washington, DC 20460  
Room 4110  
William Jefferson Clinton Federal Building South (WJC South) Mail Code 2243A  
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-----Original Message-----

From: Garcia, Delia  
Sent: Thursday, August 21, 2014 5:43 PM  
To: Stokely, Peter  
Subject: FW: Request to review case file 2014-00195 (Black Tea Oil) (UNCLASSIFIED)

Pete,

I am forwarding the email that I spoke about today in relation to the OHWM. I will compile the other information and sent it to you. Thanks

Delia Garcia, PhD  
Environmental Scientist  
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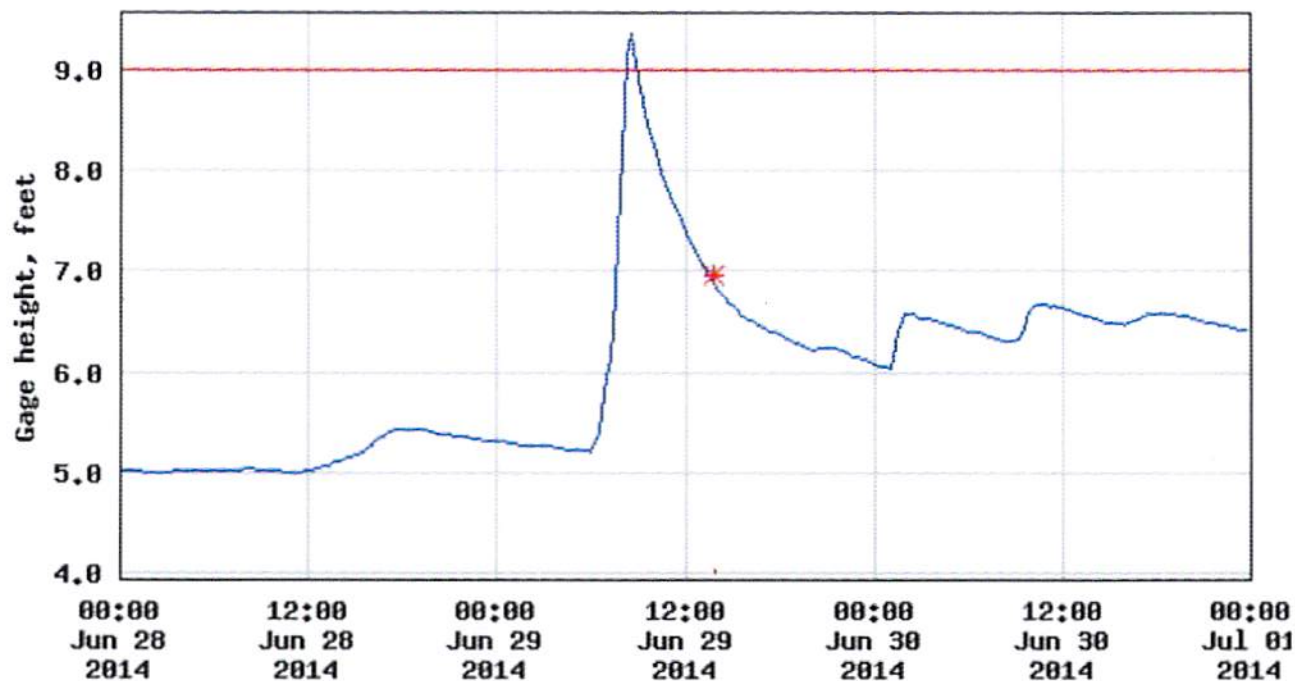
-----Original Message-----

From: Hibbs, David R NWK [mailto:David.R.Hibbs@usace.army.mil]  
Sent: Wednesday, August 20, 2014 4:34 PM

## Gage height, feet

Most recent instantaneous value: 4.11 08-22-2014 14:30 CDT

USGS 06860000 SHOKY HILL R AT ELKADER, KS



----- Provisional Data Subject to Revision -----

— Gage height

\* Measured gage height

— Flood Stage

Add up to 2 more sites and replot for "Gage height, feet"

[Add site numbers](#) [Note](#)

Enter up to 2 site numbers separated by a comma. A site number consists of 8 to 15 digits

GO

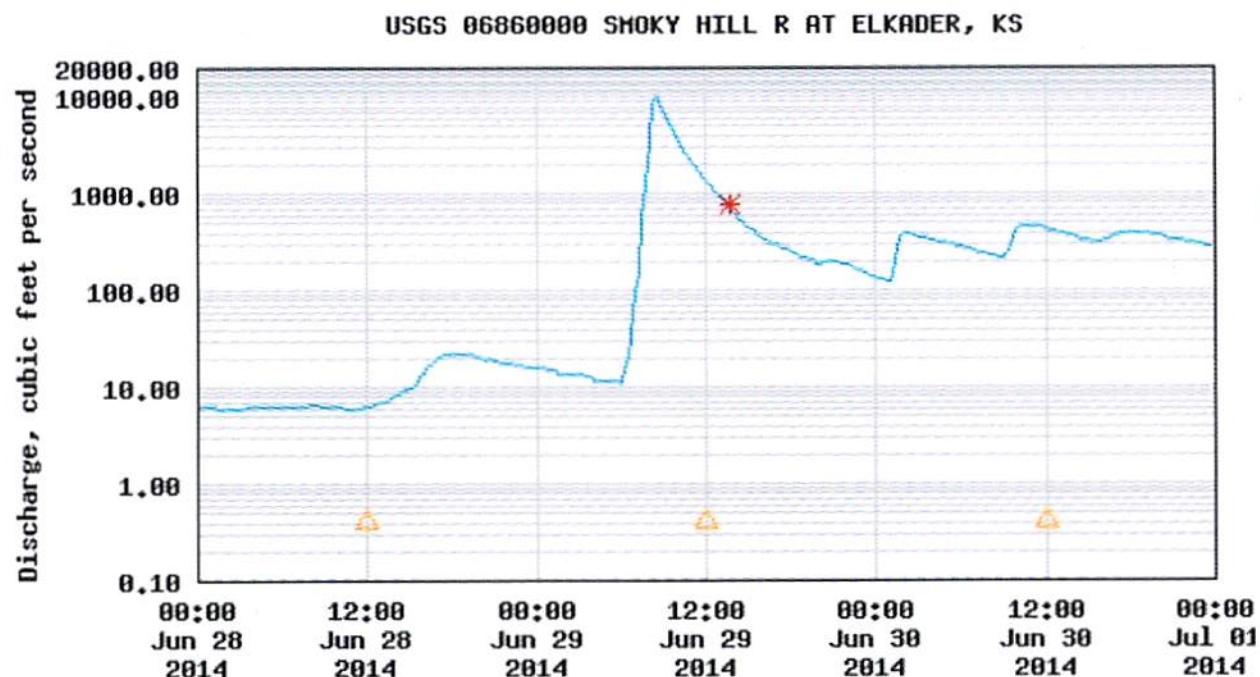
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## Discharge, cubic feet per second

Most recent instantaneous value: 0.06 08-22-2014 14:30 CDT



----- Provisional Data Subject to Revision -----

△ Median daily statistic (74 years) \* Measured discharge  
— Discharge

Add up to 2 more sites and replot for "Discharge, cubic feet per second"

[Add site numbers](#) [Note](#)

Enter up to 2 site numbers separated by a comma. A site number consists of 8 to 15 digits

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